

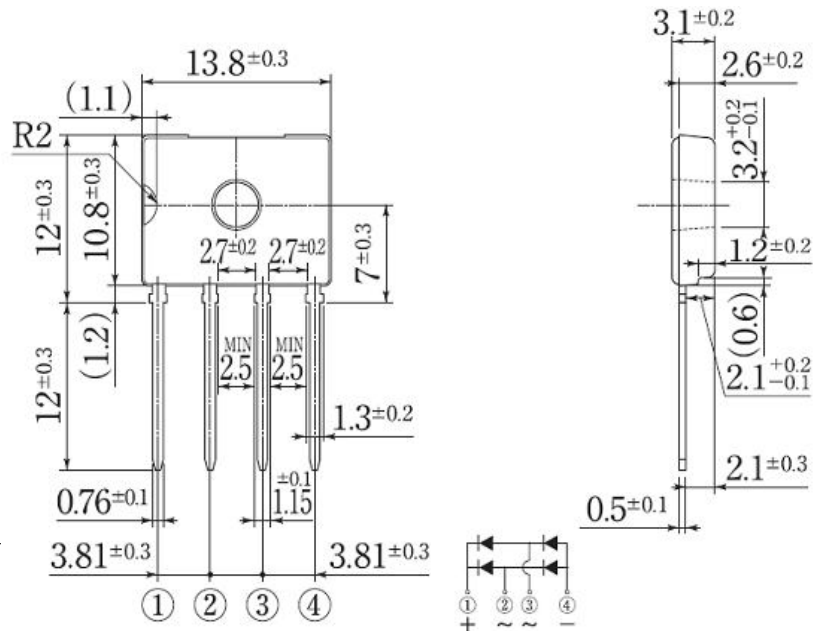
4. 0A SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- High case dielectric strength
- High surge current capability
- Ideal for printed circuit board

Mechanical Data

- Terminal: Plated leads solderable per MIL-STD 202E, Method 208C
- Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity: Polarity symbol marked on body
- Mounting Position: Any



Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbol	UG4KB 05	UG4KB 10	UG4KB 20	UG4KB 40	UG4KB 60	UG4KB 80	UG4KB 100	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average forward output rectified current	I (AV)	4.0							A
Peak forward surge current 8.3ms single sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	125							A
Maximum instantaneous forward voltage drop per diode @4.0A	V _F	1.1							V
Maximum DC reverse current at TA=25℃ rated DC blocking voltage per leg TA=125℃	I _R	5.0 500							uA
Typical thermal resistance per leg	R θ JA	55							℃/W
	R θ JL	15							
Operating junction temperature range	T _J	-55 to +150							℃
storage temperature range	T _{stg}	-55 to +150							℃

Note:

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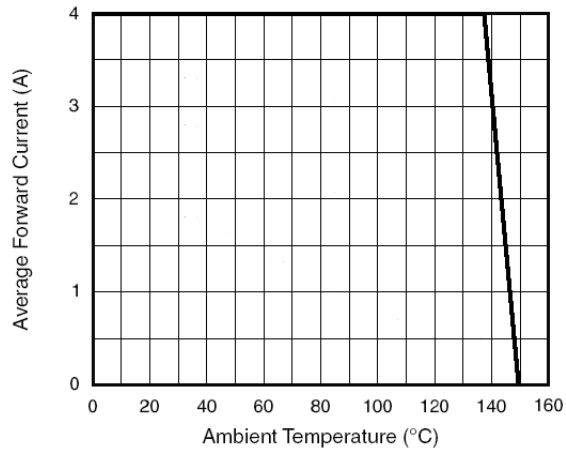


Figure 1. Forward Current Derating Curve

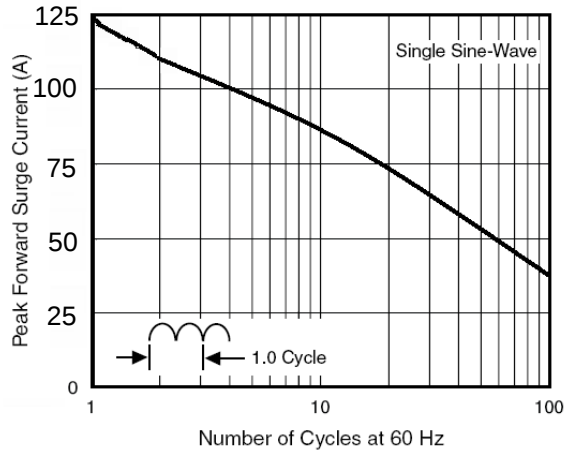


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

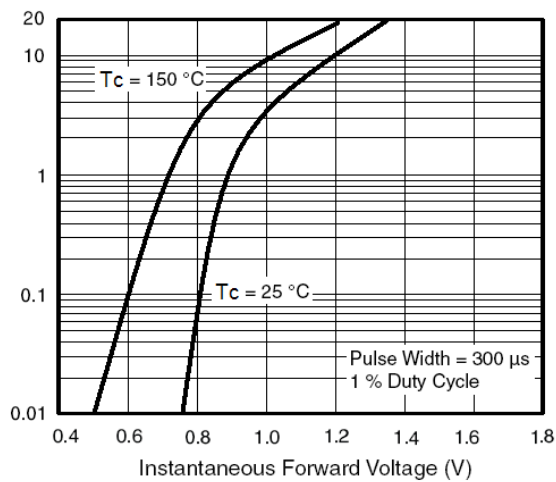


Figure 3. Typical Forward Characteristics Per Diode

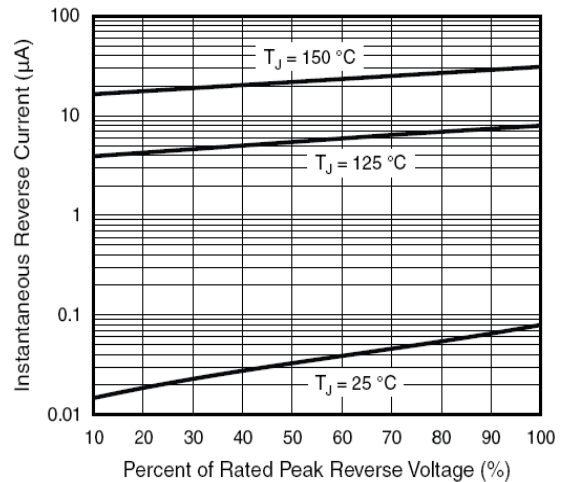


Figure 4. Typical Reverse Leakage Characteristics Per Diode